



SEQUENCE LISTING

<110> Gallie, Daniel R.
Young, Todd E.
The Regents of the University of California

<120> Generation of Multiple Embryo Maize

<130> 023070-121500US

<140> US 10/072,077

<141> 2002-02-07

<160> 1

<170> PatentIn Ver. 2.1

<210> 1

<211> 3183

<212> DNA

<213> Arabidopsis thaliana

<220>

<221> promoter

<222> (1)..(3183)

<223> senescence-associated gene 12-1 (SAG12-1) promoter

<400> 1

gatatactctt	tttatattca	aacaataagt	tgagatatgt	ttgagaagag	gacaactatt	60
ctcgtggagc	accgagctcg	ttttatatta	gaaaccgat	tggtattttt	agactgagac	120
aaaaaagtaa	aatcgttgat	tgtaaataat	taaaattagt	ttcatcacgt	ttcgataaaa	180
aaatgattag	ttatcatagc	taatatagca	tgattctaaa	tttggttttt	gacacccttt	240
ttttctctct	ttggtgtttt	cttaacatta	gaagaacca	taacaatgta	cgttcaaatt	300
aattaaaaac	aatattttcca	agttttatat	acgaaacttg	tttttttaat	gaaaacagtt	360
gaatagttga	ttatgaatta	gtagatcaa	tactcaatat	atgatcaatg	atgtatatat	420
atgaactcag	ttgttataca	agaaatgaaa	atgctattta	aataccgatc	atgaagtgtt	480
aaaaagtgtc	agaatatgac	atgaagcgtt	ttgtcctacc	gggtatcgag	ttataggttt	540
ggatctctca	agaatatttt	gggccatatt	agttatat	gggcttaagc	gttttgcaaa	600
gagacgagga	agaaagattg	ggtcaagtta	acaaaacaga	gacactcgta	ttagttggta	660
ctttggtagc	aagtcgattt	atttgccagt	aaaaacttgg	tacacaactg	acaactcgta	720
tcgttattag	tttgtagctg	gtacctttgg	ttaagaaaaa	gttgatatag	ttaaatcagt	780
tgtgttcacg	aggtgattgt	gattttaattt	gttgactagg	gcgattcctt	cacatcacaa	840
taacaaagtt	ttatagattt	ttttttataa	catttttgcc	acgcttcgta	aagtttggtg	900
tttacaccgc	atttttcctt	gtacaagaat	tcatatatta	tttatttata	tactccagtt	960
gacaattata	agttttataac	gttttttaca	ttattttaaat	accatgtgaa	gatccaagaa	1020
tatgtcttac	ttcttctttg	tgtaagaaaa	ctaactatat	cactataata	aaataattct	1080
aatcattata	tttgtaaata	tgtagttatt	tgtcaatttt	gaatttagta	ttttagacgg	1140
ttatcacttc	agccaaatat	gattttggatt	taagtccaaa	atgcaatttc	gtacgtatcc	1200
ctcttgctcg	ctaatagatta	tttcaatatt	tcttatatta	tccctaacta	cagagctaca	1260
tttatattgt	attctaataga	cagggaaact	ttcatagaga	ttcagataga	tgaaattggt	1320
gggaaacatc	attgaacagg	aaacttttag	caaatcatat	cgatttatct	acaaaagaat	1380
acttagcgta	atgaagttca	cttggttgta	atgactatga	tttgatcaaa	ttagtttaatt	1440
ttgtcgaatc	atttttcttt	ttgatttgat	taagctttta	acttgcacga	atggttctct	1500
tgtgaataaa	cagaatcttt	gaattcaaac	tatttgatta	gtgaaaagac	aaaagaagat	1560
tccttgtttt	tatgtgatta	gtgattttga	tgcatgaaag	gtacctacgt	actacaagaa	1620
aaataaacat	gtacgtaact	acgtatcagc	atgtaaaagt	atttttttcc	aaataattta	1680
tactcatgat	agattttttt	tttttgaaat	gtcaattaaa	aatgctttct	taaatattaa	1740
ttttaattaa	ttaaataagg	aaatatattt	atgcaaaaca	tcatcaacac	atatccaact	1800
tcgaaaatct	ctatagtaca	caagtagaga	aaataaattt	tactagatac	aaacttccta	1860
atcatcaatt	ataaatgttt	acaaaactaa	ttaaaccac	cactaaaatt	aactaaaaat	1920
ccgagcaaag	tgagtgaaca	agacttgatt	tcagggtgat	gtaggactaa	aatggctacg	1980

COPY OF PAPERS
ORIGINALLY FILED

tatcaa	acat	caacgat	cat	ttagttat	gt	atgaat	gaat	gtagtc	atta	cttgtaaaa	ac	2040
aaaa	atgctt	tgattt	ggat	caatcact	tc	atgtga	acat	tagcaatt	ac	atcaac	ccta	2100
tttt	cactat	aaaacccc	at	ctcagt	accc	ttctga	agta	atcaaatt	aa	gagcaaaa	agt	2160
cattt	aactt	tcctaaa	acc	atggacc	cctg	catcta	aattt	tcggtcca	ac	ttgcac	agga	2220
aagac	gacga	ccgcgat	agc	tcttgccc	ag	cagacag	ggc	ttccagtc	cct	ttcgctt	gat	2280
cgggt	ccaat	cgtgtc	cctca	actatc	aacc	ggaagc	ggac	gaccaac	agt	ggaaga	actg	2340
aaagga	acga	cgcgtc	tcta	ccttgat	gat	cggcct	ctgg	tggagg	ggtat	catcgc	cagcc	2400
aagca	agctc	atcatag	gct	gatcgag	gag	gtgtata	aatc	atgagg	ccaa	cggcggg	cctt	2460
attctt	gagg	gaggat	ccac	ctcgtt	gctc	aactgc	atgg	cgcgaa	acag	ctattg	gagt	2520
gcagatt	tttc	gttggc	atat	tattcg	ccac	aagttac	cccg	accaag	agac	cttcat	gaaa	2580
gcggc	caagg	ccagag	ttaa	gcagat	gttg	cacccc	gctg	caggcc	attc	tattatt	caa	2640
gagtt	ggttt	atcttt	ggaa	tgaacct	cgg	ctgagg	ccca	ttctga	aaaga	gatcgat	gga	2700
tatcgat	atg	ccatgtt	ggt	tgctag	ccag	aaccagat	ca	cggcagat	at	gctatt	gcag	2760
cttgac	gcaa	atatgga	agg	taagtt	gatt	aatggg	atcg	ctcagg	agta	tttcat	ccat	2820
gcgcg	ccaac	aggaac	agaa	attcccc	caa	gttaac	gcag	ccgcttt	cga	cggatt	cga	2880
ggtcat	cctg	tcggaat	gta	ttaggt	tacg	ccagcc	cctga	gctcgat	cgt	tcaa	acattt	2940
ggcaata	aaag	tttctta	aga	ttgaat	cctg	ttgccg	gtct	tgcgat	gatt	atcatata	aat	3000
ttctgtt	gaa	ttacgt	taag	catgta	ataa	ttaacat	gta	atgcat	gacg	ttattt	atga	3060
gatggg	tttt	tatgatt	aga	gtccc	gcaat	tatacat	ttta	atacgc	gata	gaaa	acaaaa	3120
tatggc	gcgc	aaactgg	gat	aaattat	cgc	gcgcggt	gtc	atctat	gtta	ctagat	cga	3180
ttc												3183